

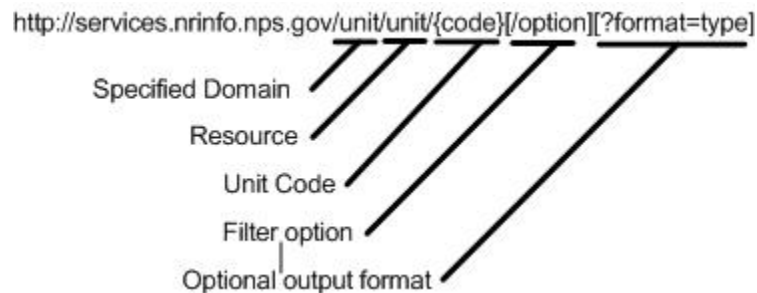


## Help for Unit REST Services

The Unit REST Services support operations for the following resources: Unit, UnitList, UnitGeography, UnitCollection

### Unit Resource - Fetch Unit

Given a Unit Code, this operation returns standard Unit information for one Unit record, including in the Unit's name, status, designation, and a set of comma-delimited state codes. For those units linked to a Network and/or Region, this operation also returns the code and name of the Network and Region linked to the park. A filter option allows the return of linked.



#### Input Parameters:

<i>Unit Code</i>	One Unit Code (e.g. ROMO) is accepted; case-insensitive
<i>Filter Option</i>	Defines additional details option = parks: returns all park units linked to a unit
<i>Format</i>	Unit element is returned in either XML or JSON format; XML is the default

#### Output:

Returns Unit element(s) with the Unit Code and name of linked Region and Network Units, where appropriate. Returns a 'Resource Not Found' error if the specified Unit Code does not exist.

#### Example XML Unit Element (Rocky Mountain National Park):

```
- <Unit xmlns="http://schemas.datacontract.org/2004/07/NRPC.Unit.External.Service.Contract" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <FullName>Rocky Mountain National Park</FullName>
  <Network>ROMN</Network>
  <NetworkName>Rocky Mountain Network</NetworkName>
  <Region>IMR</Region>
  <RegionName>Intermountain Region</RegionName>
  <StateCodes xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
    <a:string>CO</a:string>
  </StateCodes>
  <UnitCode>ROMO</UnitCode>
  <UnitDesignationCode>NP</UnitDesignationCode>
  <UnitDesignationName>National Park</UnitDesignationName>
  <UnitLifeCycle>Active</UnitLifeCycle>
  <UnitName>Rocky Mountain</UnitName>
</Unit>
```

#### Example URLs:

Fetch Unit information for Rocky Mountain National Park as XML:

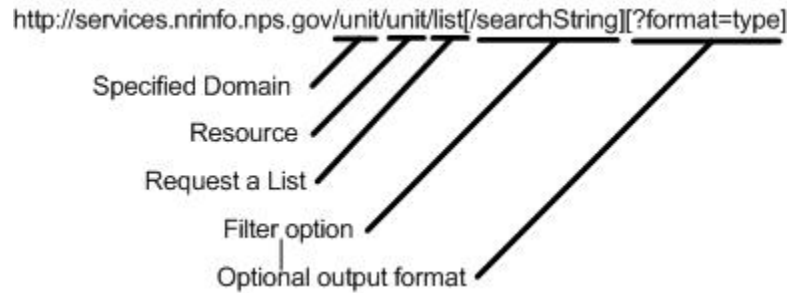
<http://irmaservices.nps.gov/unit/unit/romo>

Fetch Unit information for Heartland I&M Network, including linked parks:

<http://irmaservices.nps.gov/unit/unit/htln/parks>

## UnitList Resource - Fetch Unit List

Given an optional search string, returns standard Unit information for one or more unit records. These case-insensitive search strings may be any part of the searchable attributes of a Unit element (code, name, lifecycle, designation). *The lack of a search string in the URL results in a list of all units found in the Unit service.*



### **Input Parameters:**

- Search String* Value to search in Unit Code, Name, Lifecycle, Designation values (e.g. ROMO); case-insensitive. Any Unit having a searchable attribute containing this phrase is returned in the search results.
- Format* Unit element(s) returned in either XML or JSON format; XML is the default

### **Output:**

Returns Unit element(s) . Returns a 'Resource Not Found' error if the specified search string is not found.

### **Example URLs:**

Fetch pending Units (Lifecycle):

<http://irmaservices.nps.gov/unit/unit/list/pending>

Fetch inactive Units (Lifecycle):

<http://irmaservices.nps.gov/unit/unit/list/inactive>

Fetch National Parks (Designation):

<http://irmaservices.nps.gov/unit/unit/list/National%20Park>

Fetch National Monuments (Designation):

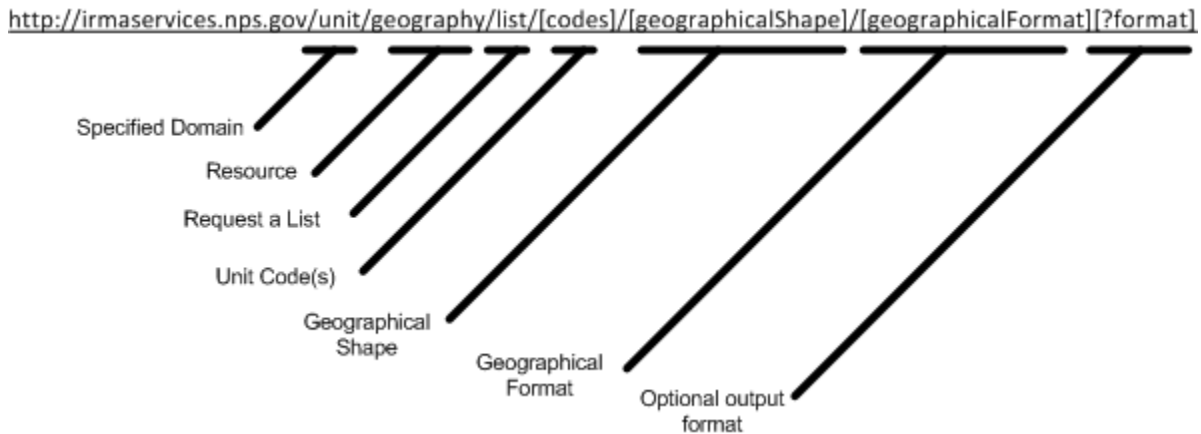
<http://irmaservices.nps.gov/unit/unit/list/National%20Monument>

Fetch Units with 'Office' in their name:

<http://irmaservices.nps.gov/unit/unit/list/office>

## UnitGeography Resource - Fetch Unit Geography

This operation returns geographical information for Units given as a comma-delimited string. Geographical information can be rendered in either WKT or GML, and shapes may be returned as either full feature, convex hull, or bounding box envelopes. Not all Units have geographical values.



### Input Parameters:

<i>Unit Code(s)</i>	Unit code(s) as a comma-delimited string Single Unit = ROMO Multiple Units = ROMO,FLFO
<i>Geographical Shape</i>	geographicalShape = Feature geographicalShape = ConvexHull geographicalShape = Envelope
<i>Geographical Format</i>	Unit Geography element(s) returned in either WKT or GML format; WKT is the default
<i>Format</i>	Return either XML or JSON format; XML is the default

### Output:

Returns one or more UnitGeography element(s). Returns a 'Resource Not Found' error if the specified code is not found.

### Example URLs:

Rocky Mountain National Park as WKT (Feature in XML format):

<http://irmaservices.nps.gov/unit/geography/list/ROMO/Feature/WKT>

Rocky Mountain National Park as WKT (Feature in GeoJSON format):

<http://irmaservices.nps.gov/unit/geography/list/ROMO/Feature/WKT?format=json>

Rocky Mountain National Park as GML (Feature in XML format):

<http://irmaservices.nps.gov/unit/geography/list/ROMO/Feature/GML>

Bounding Boxes for Rocky Mountain and Glacier National Parks as WKT (in XML format):

<http://irmaservices.nps.gov/unit/geography/list/ROMO,GLAC/Envelope/WKT>

Convex Hulls for Rocky Mountain and Glacier National Parks as GML (in XML format):

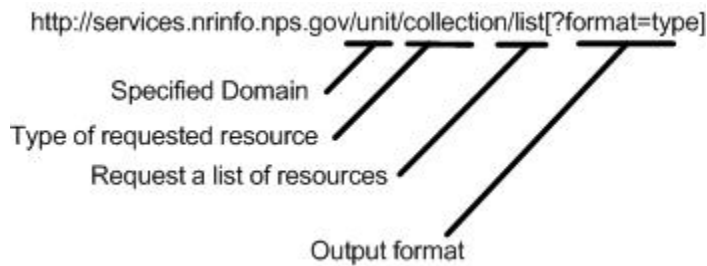
<http://irmaservices.nps.gov/unit/geography/list/ROMO,GLAC/ConvexHull/GML>

## UnitCollection Resource - Fetch Unit Collection (I&M Parks)

Returns all Collections and their associated Unit records, with the code and name of linked Region and Network units where appropriate. A Unit may appear in more than one Collection. The current Collections are:

Current I&M Parks (IMC)

Original I&M Parks (IMO)



### Input Parameters:

*Format* Unit element(s) returned in either XML or JSON format; XML is the default

### Output:

Returns Unit Collection elements. Returns a 'Resource Not Found' error if the specified search string is not found.

**To see current I&M Parks, collapse the first UnitCollection element:**

```
- <ArrayOfUnitCollection xmlns="http://schemas.datacontract.org/2004/07/NRPC.Unit.External.Service.Contract"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
+ <UnitCollection>
- <UnitCollection>
  <Code>IMC</Code>
  <Name>Current I and M Parks</Name>
- <Units>
  - <Unit>
    <Code>ABLI</Code>
    <Name>Abraham Lincoln Birthplace</Name>
  </Unit>
  - <Unit>
    <Code>ACAD</Code>
    <Name>Acadia</Name>
  </Unit>
  - <Unit>
    <Code>AGFO</Code>
    <Name>Agate Fossil Beds</Name>
  </Unit>
  - <Unit>
    <Code>ALAG</Code>
    <Name>Alagnak Wild River</Name>
  </Unit>
```

### Example URLs:

Fetch all Unit Collections:

<http://irmaservices.nps.gov/unit/collection/list>